

POLYMER CHEMISTRY

AN INTRODUCTION

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As shown in the following equations, the persulfate ion undergoes homolytic cleavage to produce two sulfate ion radicals. These serve as initiators for the few water-soluble monomer molecules present in the aqueous phase.



(9.35)

9.4.4 Polymerization Techniques



According to a theory proposed by Harkins and refined by Smith and Ewart, the first stages of propagation in an emulsion system also take place in the aqueous phase to produce a more lyophilic surface-active oligomeric, as shown below in (9, 36).

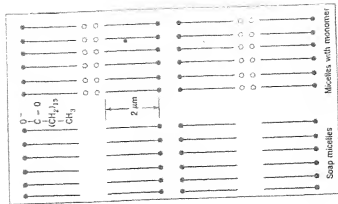


FIGURE 9.3 Micelles swollen with solubilized styrene monomer. (From Introduction to Polymer Chemistry by R. Seymour, McGraw-Hill, New York, 1971. Used with permission of McGraw-Hill Book Company.)